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Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: Improvements of RCC Drain and Covering Slab Dasarahalli Metro Station to Bylappa Circle Right Side Ward No. 15 T.Dasarahalli.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	Drain Bottom Slab Concrete M20	Compressive Strength(7days and 28days)	5set /51-100 cum	98.65	10	10
9	Drain Side Wall Concrete M20	Compressive Strength(7days and 28days)	6 set /100-150 cum	139.41	12	12
10	Culvert Bottom Raft Concrete M20	Compressive Strength(7days and 28days)	2 set /16-30 cum	11.81	4	4
11	Culvert Side Wall Concrete M20	Compressive Strength(7days and 28days)	4 set /31-50 cum	46.59	8	8

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 08-01-20

Lab ID	:	CP-2020-02-20-90
Customer	:	Assistant Executive Engineer, T-Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T-Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of RCC Drain and Covering Slab Dasarahalli Metro Station to Bylappa Circle Right Side Ward No. 15 T.Dasarahalli.
Agency	:	Technical Managar (West), Karnataka Rural Infrastructure Development Limited, Project Implementation Unit, No.280,59th Cross, 17th C Main Road 3rd Y block, Rajaji Nagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/DD/WO/358/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-01-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	06-01-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.1	–
2	Finess by Air permeablity method (m^2/kg,Min)	284.5	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	28%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

Note:

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All information furnished by Customer/Representative

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Authorized Signatory
Technical Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2020-02-20-90 Date: 08-01-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.53	–
5	Bulk Density(Compacted) (Kg/l)	1.57	–
6	Water Absorption(%)	0.19	–
7	Aggregate crushing Value(%)	25.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.5	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Certificate No.: TC-5548

TEST REPORT OF PRECAST COVER SLAB

Format No: CP/TF/01

Lab ID	:	CP-2020-02-20-90
Customer	:	Assistant Executive Engineer, T-Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T-Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of RCC Drain and Covering Slab Dasarahalli Metro Station to Bylappa Circle Right Side Ward No. 15 T.Dasarahalli.
Agency	:	Technical Managar (West), Karnataka Rural Infrastructure Development Limited, Project Implementation Unit, No.280,59th Cross, 17th C Main Road 3rd Y block, Rajaji Nagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/DD/WO/358/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-01-20
Sample Type /Size	:	Precast Cover Slab (250mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	28/01/2020

Date: 03-02-20

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.51	250.48	3.116	31570	240.9	7.6	7.1	8.9
2	Cover Slab-2	200.49	250.52	3.122	31564	240.3	7.6	7.1	8.9
3	Cover Slab-3	200.50	250.51	3.118	31567	240.5	7.6	7.1	8.9

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Certificate No.: TC-5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 27/01/2020

Lab ID	:	CP-2020-02-20-90
Customer	:	Assistant Executive Engineer, T-Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T-Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of RCC Drain and Covering Slab Dasarahalli Metro Station to Bylappa Circle Right Side Ward No. 15 T.Dasarahalli.
Agency	:	Technical Managar (West), Karnataka Rural Infrastructure Development Limited, Project Implementation Unit, No.280,59th Cross, 17th C Main Road 3rd Y block, Rajaji Nagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/DD/WO/358/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-01-20
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	20/01/2020	27/01/2020	150.24 X 150.98 X 150.85	22683	8.616	408.5	18.0	18.4
2	Drain Side Wall Concrete	M20	20/01/2020	27/01/2020	150.70 X 150.20 X 149.56	22634	8.835	422.5	18.7	
3	Drain Side Wall Concrete	M20	20/01/2020	27/01/2020	150.34 X 149.54 X 151.39	22482	8.176	414.8	18.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/08/2019

Lab ID	:	CP-2020-02-20-90
Customer	:	Assistant Executive Engineer, T-Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T-Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of RCC Drain and Covering Slab Dasarahalli Metro Station to Bylappa Circle Right Side Ward No. 15 T.Dasarahalli.
Agency	:	Technical Managar (West), Karnataka Rural Infrastructure Development Limited, Project Implementation Unit, No.280,59th Cross, 17th C Main Road 3rd Y block, Rajaji Nagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/DD/WO/358/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-07-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	20/07/2019	17/08/2019	151.70 X 150.21 X 151.11	22787	8.736	536.1	23.5	23.0
2	Drain Side Wall Concrete	M20	20/07/2019	17/08/2019	151.33 X 151.76 X 151.19	22967	8.174	511.3	22.3	
3	Drain Side Wall Concrete	M20	20/07/2019	17/08/2019	149.59 X 150.96 X 150.92	22582	8.466	525.9	23.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 27/01/2020

Lab ID	:	CP-2020-02-20-90
Customer	:	Assistant Executive Engineer, T-Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T-Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of RCC Drain and Covering Slab Dasarahalli Metro Station to Bylappa Circle Right Side Ward No. 15 T.Dasarahalli.
Agency	:	Technical Managar (West), Karnataka Rural Infrastructure Development Limited, Project Implementation Unit, No.280,59th Cross, 17th C Main Road 3rd Y block, Rajaji Nagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/DD/WO/358/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-01-20
Customer ID	:	Culvert Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	20/01/2020	27/01/2020	150.05 X 149.73 X 151.71	22468	8.616	421.2	18.7	18.4
2	Culvert Side Wall Concrete	M20	20/01/2020	27/01/2020	151.99 X 150.93 X 151.53	22940	8.835	423.0	18.4	
3	Culvert Side Wall Concrete	M20	20/01/2020	27/01/2020	151.52 X 150.02 X 149.15	22732	8.176	412.8	18.2	

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